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We Dream Big Institution have started a New Series "Score-Up PDF". This will be like a one stop solution for High Standard Practice Questions on all Topics. Here we have given the Quantitative Aptitude "Score-Up PDF" - Data Interpretation, candidates can download it now. Kindly share this to all your friends.

## TOP 50 Data Interpretation Questions For (Clerk Mains)

SET: 1 Direction: Study the data carefully and answer the questions given beside: The table shows the percentage of marks obtained by five students in five different subjects and some data is missing.

|  | Maths <br> $(\mathbf{1 0 0})$ | English <br> $(\mathbf{1 5 0})$ | Hindi <br> $(\mathbf{8 0})$ | Commerce <br> $\mathbf{( 1 6 0 )}$ | Art <br> $\mathbf{( 1 2 5 )}$ |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Chintu | - | $40 \%$ | - | $65 \%$ | $56 \%$ |
| Sheena | - | $68 \%$ | $85 \%$ | - | $76 \%$ |
| Umesh | $62 \%$ | - | $90 \%$ | $70 \%$ | - |
| Aryansh | $88 \%$ | $70 \%$ | - | - | $84 \%$ |
| Himani | $78 \%$ | - | $75 \%$ | $85 \%$ | - |

Q. If the overall percentage of marks obtained by Umesh in all the subjects is $\mathbf{8 0 \%}$ and the marks obtained by Umesh in English is $\mathbf{2 6}$ marks more than the marks obtained by Umesh in Art, find the percentage of marks obtained by Umesh in Art.
A) $72 \%$
B) $75 \%$
C) $90 \%$
D) $88 \%$
E) None of these

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Answer: Correct Option: D
Total maximum marks $=100+150+80+160+125=615$ marks
Overall marks obtained by Umesh $=615 \times 80 \%=492$
Let Marked obtained in Art =x, English $=x+26$
According to the question,
$100 \times 62 \%+x+26+80 \times 90 \%+160 \times 70 \%+x=492$
$62+\mathrm{x}+26+72+112+\mathrm{x}=492$
$2 \mathrm{x}+272=492$
$2 \mathrm{x}=492-272$
$2 \mathrm{x}=220$
$\mathrm{x}=110$
Marks obtained by Umesh in Art $=110$
$\%=110 / 125 \times 100=88 \%$
Hence, option D is correct.
Q. What is the ratio of the marks obtained by Chintu in English and Commerce together to the marks obtained by Aryansh in English and Art together.
A) $75: 109$
B) $21: 31$
C) $41: 65$
D) $82: 105$

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E) None of these

Answer: Correct Option: D
Marks obtained by Chintu in English $=150 \times 40 \%=60$
Marks obtained by Chintu in Commerce $=160 \times 65 \%=104$
Marks obtained by Aryansh in English $=150 \times 70 \%=105$
Marks obtained by Aryansh in Art $=125 \times 84 \%=105$
Ratio $=60+104: 105+105$
$=164: 210$
= $82: 105$
Hence, option D is correct.
Q. If the total marks obtained by Sheena in English, Hindi and Commerce is 290 and the total marks obtained by Himani in Math, Hindi and Art is 218, find the difference between the marks obtained by Sheena in Commerce and the marks obtained by Himani in Art.
A) 60 marks
B) 40 marks
C) 75 marks
D) 20 marks
E) None of these

## Answer: Correct Option: B

Marks obtained by Sheena in English $=150 \times 68 \%=102$

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Marks obtained by Sheena in Hindi $=80 \times 85 \%=68$
Marks obtained by Sheena in Commerce $=290-102-68=120$
Marks obtained by Himani in Math $=100 \times 78 \%=78$
Marks obtained by Himani in Hindi $=80 \times 75 \%=60$
Marks obtained by Himani in Art $=218-78-60=80$
Difference $=120-80=40$ marks
Hence, option B is correct.
Q. If the marks obtained by Umesh in English is 90 and the marks obtained by Himani in English is 114, find the percentage of marks obtained by all students in English.
A) $72.8 \%$
B) $78.8 \%$
C) $62.8 \%$
D) $69.8 \%$
E) $81.8 \%$

## Answer: Correct Option: C

Marks obtained by Chintu in English $=150 \times 40 \%=60$
Marks obtained by Sheena in English $=150 \times 68 \%=102$
Marks obtained by Umesh in English $=90$
Marks obtained by Aryansh in English $=150 \times 70 \%=105$
Marks obtained by Himani in English $=114$

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Total marks $=60+102+90+105+114=471$
Total maximum marks $=150 \times 5=750$
$\%=471 / 750 \times 100=62.8 \%$
Hence, option C is correct.
Q. Marks obtained by Aryansh in Math and Art together is approximately how much percentage more than the marks obtained by Himani in Commerce?
a) $50 \%$
b) $34 \%$
c) $46 \%$
d) $38 \%$
e) $42 \%$

## Answer: Correct Option: E

Marks obtained by Aryansh in Math $=100 \times 88 \%=88$
Marks obtained by Aryansh in Art $=125 \times 84 \%=105$
Marks obtained by Himani in Commerce $=160 \times 85 \%=136$
$\%$ more $=\frac{105+88-136}{136} \times 100$

57
$=\frac{}{136} \times 100=41.9 \% \approx 42 \%$
Hence, option E is correct.

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SET 2: Directions : Study the following table chart carefully and answer the questions given beside.

It's a description about four friends Ram, Arun, Tahir, and Karan. They all go for running in parks near their society. Total three table charts show related information.

Name of the parks and the length of tracks on which they run. All tracks are circular.

## Table-1

| Name of the <br> park | Length of <br> tracks(meter) |
| :--- | :--- |
| Sector-1 (S-1) | 400 |
| Sector-2 (S-2) | 300 |
| Sector-3 (S-3) | 500 |
| Sector-4 (S-4) 250 |  |
| Sector-5 (S-5) | 600 |

Number of trips they make and time to make all correspondingly mentioned trips.

## Table-2

|  | Monday | Tuesday | Thursday | Friday |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | Tripstime(min) | Tripstime(min) | Tripstime(min) | Tripstime(min) |  |  |
| Ram | 6 | 10 | 4 | 12 | 8 | 16 |
| Arun | 3 | 10 | 4 | 18 | 6 | 15 |
| Tahir | 5 | 10 | 5 | 15 | 7 | 21 |
| Karan 2 | 8 | 6 | 12 | 5 | 20 | 4 |

Note: On a particular day, no two person will go to same park until the question says so. Speed of any of them could be same or different any day in any park. Don't assume same as previous day until question says so.

Weekly plan for who will go to which park on a particular day.

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Table-3

|  | MondayTuesday |  | Thursday | Friday |
| :--- | :--- | :--- | :--- | :--- |
| Ram | - | S-3 | S-4 | S-4 |
| Arun | - | S-5 | S-2 | S-3 |
| Tahir | - | S-1 | S-3 | S-5 |
| Karan | S-2 | S-5 | S-1 |  |

Q. The options show name of all the person along with the park in which he ran. Out of the given options, which combination would be such that all the four person ran with same speed in their respective park on Monday?(Answer to this question will fill blank space in table-3.)
a) Ram-S-1, Arun-S-3, Tahir- S-5, and Karan- S-4
b) Ram-S-2, Arun-S-1, Tahir- $S$ - 3 , and Karan- $S$ - 4
c) Ram - S-4, Arun-S-3, Tahir-S-5, and Karan-S-2
d) Ram - S-4, Arun-S-3, Tahir- S-2, and Karan-S-5
e) None of these

## Answer: Correct Option: D

From the common explanation, we have
We verify each option one by one as follows.
In option D, Ram run in S-4. It has a length of 250 meters. Number of trips he makes $=6$, so the distance he covers is $=6 \times 250=1500$ meters. Time he took 10 min ,

1500
so his speed is $\qquad$ $=150 \mathrm{~m} / \mathrm{min}$
10
Similarly, for Arun run in S-3. It has a length of 500 meters. Number of trips he makes $=3$, so the distance he covers is $=3 \times 500=1500$ meters. Time he took 10 min ,

1500
so his speed is $\qquad$ $=150 \mathrm{~m} / \mathrm{min}$

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Similarly, for Tahir run in S-2. It has a length of 300 meters. Number of trips he makes $=5$, so the distance he covers is $=5 \times 300=1500$ meters. Time he took 10 min ,

1500
so his speed is $\qquad$ $=150 \mathrm{~m} / \mathrm{min}$ 10

Karan run in S-5. It has a length of 600 meters. Number of trips he makes $=2$, so the distance he covers is $=2 \times 600=1200$ meters. Time he took 8 min ,

1500
so his speed is $\qquad$ $=150 \mathrm{~m} / \mathrm{min}$
8

In the same way when we calculate for other option we see they don't give same speed for all the persons.
Therefore, right combination is

Ram - S-4, Arun- S-3, Tahir- S-2, and Karan- S-5
Hence, option D is correct.

## Common explanation :

We calculate all the distance they ran on a particular day according to given plan.
For the rest we will calculate from
distance $=$ the number of trips x length of the track on which the particular person ran.
For example, Ram on Tuesday ran in park S-3 and made 4 trips. Length of S-3 is 500 meters so,
distance $=4 \times 500=2000$ meters.
Similarly, other values can be calculated easily. Here the table gives all those values:
All distance in meters -

|  | Monday Tuesday | Thursday | Friday |  |
| :--- | :--- | :--- | :--- | :--- |
| Ram | 1500 | 2000 | 2000 | 1000 |

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| Arun | 1500 | 2400 | 1800 | 2500 |
| :--- | :--- | :--- | :--- | :--- |
| Tahir | 1500 | 2000 | 3500 | 2400 |
| Karan 1200 | 1800 | 3000 | 1200 |  |

Q. Consider they plan a game for a week. Nothing will be changed in this game except for assigning a sequence of running. In this game, all are connected through electronic device, and when the first person stops in his park after making the planned trips for that day, the second person starts on knowing it through the device in whichever park he is, and when the second stops after making all the planned trips for that day, the third starts, and so on. Assume time consumed in passing the information is negligible. If we divide the total distance all the four persons ran on a day with total time they took to finish this game on that day we get a number, call it 'common speed'. On which day the common speed is lowest?
a) Tuesday
b) Monday
c) Friday
d) Thursday
e) B and C both

## Answer: Correct Option: C

From the common explanation, we have
Consider Monday, the distance in this game they will run is sum of all the individual distances they ran. So we have from common explanation:
On Monday, distance $=1500+1500+1500+1200=5700$ meter
from table-2, Total time $=10+10+10+8=38 \mathrm{~min}$
the total distance all the four persons ran
common speed $=$ $\qquad$
total time to finish this game

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5700
$=\frac{}{38}=150$
For Tuesday, distance $=2000+2400+2000+1800=8200$ meter
from table-2, total time $=12+18+15+12=57 \mathrm{~min}$
common speed $=\frac{8200}{57}=143.8 \mathrm{~meter} / \mathrm{min}$
For Thursday, distance $=2000+1800+3500+3000=10300$ meter
from table-2, total time $=16+15+21+20=72 \mathrm{~min}$
common speed $=\frac{10300}{72}=143.1$ meter $/ \mathrm{min}$
For Friday, distance $=1000+2500+2400+1200=7100$ meter
from table-2, total time $=10+20+16+12=58 \mathrm{~min}$
7100
common speed $=$ $\qquad$ $=122.4$ meter $/ \mathrm{min}$

It can easily be seen that common speed is least in Friday.
Hence, option C is correct.

## Common explanation :

We calculate all the distance they ran on a particular day according to given plan.
For the rest we will calculate from
distance $=$ the number of trips x length of the track on which the particular person ran.

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For example, Ram on Tuesday ran in park S-3 and made 4 trips. Length of S-3 is 500 meters so, distance $=4 \times 500=2000$ meters.

Similarly, other values can be calculated easily. Here the table gives all those values:
All distance in meters -

|  | MondayTuesday |  |  | Thursday Friday |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Ram | 1500 | 2000 | 2000 | 1000 |
| Arun | 1500 | 2400 | 1800 | 2500 |
| Tahir | 1500 | 2000 | 3500 | 2400 |
| Karan | 1200 | 1800 | 3000 | 1200 |

Q. They all decide to run on same track on Saturday. This is a new track and its length is 1000 meters. Ram and Tahir run with speeds with what they ran on Tuesday while Arun and Karan run with speed with what they ran on thursday. They all start together from same line and stop after 5 minutes. The point where they stop is noted and the distance from this point to the other end of the track is measured for all the four persons. Average of these measurement would be?
a) 287.5 meter
b) 275.5 meter
c) 257.5 meter
d) 387.5 meter
e) None of these

## Answer: Correct Option: A

From common explanation, we see distance Ram and Tahir ran on tuesday is same 2000 meter for both. The time they took to cover this distance we see from table-2, Ram took 12 min while Tahir took 15 min .
Thus speeds of Ram and Tahir on tuesday is 2000/12 meter/min and 2000/15 meter/min respectively.

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They run for 5 minutes new track on sunday, so the distance they cover in this time would be
$5 \times 2000 \quad 5000$
Ram $=$ $\qquad$ meter $=$ $\qquad$ meter
12
6
$5 \times 2000$ 2000
Tahir $=$ $\qquad$ meter $=$ $\qquad$ meter 15 3

Similarly, for Arun and Karan, we have distance covered on thursday is 1800 meter and 3000 meter respectively. The time taken for this we see from table- 2 .
Distance cover on new track in 5 minutes for both of them on sunday would be
Arun $=\frac{5 \times 1800}{15}=600$ meter
Karan $=\frac{5 \times 3000}{20}=750$ meter

For Ram, the distance between where he stopped and the finish line would be
$=1000-\frac{5000}{6}=\frac{1000}{6}$

Similarly, for Tahir $=1000-\frac{2000}{3}=\frac{1000}{3}$

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for Arun $=1000-600=400$
for Karan $=1000-750=250$
Sum of all these measurements

$$
=\frac{1000}{6}+\frac{1000}{3}+400+250=1150
$$

1150
Average $=$ $\qquad$ $=287.5$ meter

Hence, option A is correct.
Q. They plan running on Wednesday. Ram and Karan exchanged their parks, and Tahir and Arun exchanged with each other. All of them ran for same time as they ran on Tuesday, and number of trips were also same as that on Tuesday. Means, if Ram make $n$ trips on Tuesday in $T$ minutes then he again made $n$ trips on Wednesday in $T$ mintues. Which of the options give the best arrangement with respect to speed on Wednesday?
a) Karan $>$ Tahir $>$ Arun $>$ Ram
b) Karan $>$ Tahir $>$ Ram $>$ Arun
c) Tahir $>$ Karan $>$ Ram $>$ Arun
d) Karan $>$ Arun $=$ Tahir $>$ Ram
e) None of these

## Answer: Correct Option: B

From the common explanation, we have
Ram on Tuesday was in S-3, so Karan on Wednesday goes to S-3, while Karan on Tuesday was in S-2 so Ram on Wednesday goes to S-2. Similarly, Tahir and Arun on Wednesday goes to S-5 and S-1 respectively.

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Other things like time and number of trips for Wednesday is same as Tuesday. So we write all the information as follows -

|  | Tuesday | Wednesday | Length | Trips | Time | Speed |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Ram | S-3 | S-2 | 300 m | 4 | $12 \mathrm{~min} 300 \times 4 / 12=100 \mathrm{~m} / \mathrm{min}$ |  |
| Karan | $\mathrm{S}-2$ | $\mathrm{~S}-3$ | 500 m | 6 | $12 \min 500 \times 6 / 12=250 \mathrm{~m} / \mathrm{min}$ |  |
| Tahir | $\mathrm{S}-1$ | $\mathrm{~S}-5$ | 600 m | 5 | $15 \min 600 \times 5 / 15=200 \mathrm{~m} / \mathrm{min}$ |  |
| Arun | S-5 | $\mathrm{S}-1$ | 400 m | 4 | $18 \min 400 \times 4 / 18=88.8 \mathrm{~m} / \mathrm{min}$ |  |

Order of name by speed,
Karan > Tahir > Ram > Arun
Hence, option B is correct.
Q. For a week, Ram's younger brother also joins. He goes with Karan on tuesday, with Ram on thursday, and with Tahir on friday. He is more energetic so makes one more trip for each two trips the person running with him makes. Time taken by both the people is equal. Means if Ram's brother goes with Tahir and Tahir run for $T$ minutes then Ram's brother also run for $T$ minutes. Choose the option which gives his average speed (approx.)for three the days.
a) 211 meter/minute
b) 320 meter/minute
c) 361 meter/minute
d) 232 meter/minute
e) None of these

## Answer: Correct Option: A

From the common explanation, we have
Karan on Tuesday make 6 trip in 12 minutes in S-2 park which has a length of 300 meters. So Ram's brother will also go in same park. Karan make $6=2+2+2$ trips, so Ram's brother make one more for each 2 of Karan. Thus Ram's brother will make $3+3+3=9$

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trips.
Total distance he ran in S-2 $=300 \times 9$ meter
Time he took $=12 \mathrm{~min}$
Ram on Thursday in S-4 park in 16 minutes makes 8 trips $=2+2+2+2$, his brother will make $3+3+3+3=12$ trips.
Total distance he ran in S-4 $=250 \times 12$ meter
Tahir on Friday in S-5 park in 16 minutes makes 4 trips $=2+2$, his brother will make $3+3$ $=6$ trips.
Total distance he ran in S-5 $=600 \times 6$ meter
Total distance his brother ran $=300 \times 9+250 \times 12+600 \times 6=9300$ meter
Total time he took $=12+16+16=44$ minutes
average speed $=\frac{9300}{44}=211.4 \mathrm{~m} / \mathrm{min}$
Hence, option A is correct.

SET: 3 Directions: Study the table carefully and answer the questions.

Total number of students $=32500$
The students are studying in various universities and within each university percentage of boys and girls is given.

| Universities | Percentage <br> of students | Percentage <br> of boys | Percentage <br> of girls |
| :---: | :---: | :---: | :---: |
| A | 12 | 55 | 45 |
| B | 15 | 60 | 40 |
| C | 8 | 30 | 70 |
| D | 28 | 75 | 25 |
| E | 17 | 20 | 80 |
| F | 20 | 64 | 36 |

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Q. What is the ratio of total number of boys in University B and $D$ together to the total number of girls in the same universities together?
A. $25: 19$
B. $35: 21$
C. $20: 7$
D. $30: 13$
E. $5: 3$

Correct Answers D. 30 : 13
Total number of Boys in $B=\frac{15}{100} \times 32500 \times \frac{60}{100}=2925$
Total number of Boys in D $=\frac{28}{100} \times 32500 \times \frac{75}{100}=6825$
Total number of girls in $B=\frac{15}{100} \times 32500 \times \frac{40}{100}=1950$
Total number of girls in D $=\frac{28}{100} \times 32500 \times \frac{25}{100}=2275$
Req. Ratio $=(2925+6825):(1950+2275)$
=9750:4225
=30:13
Q. The total number of students in the University $A$ is what per cent of the total number of students in University F?
A. $55 \%$
B. $67 \%$

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C. $60 \%$
D. $48 \%$
E. 58\%

Correct Answers C. 60\%
Req. \%
$=\frac{12 \times 32500}{20 \times 32500} \times 100=60 \%$
Q. What is the total number of boys from university $A, C$ and $E$ together?
A. 6030
B. 5030
C. 7030
D. 4030
E. 3030

Correct Answers D. 4030
Total number of boys from university $\mathrm{A}, \mathrm{C}$ and E together= 32500
$\overline{100 \times 100}[12 \times 55+8 \times 30+17 \times 20]=4030$
Q. The girls in the University B are what per cent of the boys in the University F?
A. $39.88 \%$

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B. $46.88 \%$
C. $49.23 \%$
D. $42.63 \%$
E. 51.02\%

Correct Answers B. 46.88\%
Req. $\%=\frac{15 \times 40}{20 \times 64} \times 100=46.88$ (approx)
Q. What is the ratio of the number of boys in the University $C$ to the number of boys in the University D?
A. $9: 39$
B. $3: 8$
C. $17: 35$
D. $13: 32$
E. $4: 35$

Correct Answers E. 4 : 35
Ratio $=\frac{8 \times 30}{28 \times 75}=4: 35$


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SET: 4 Directions: Study the two graphs carefully and answer the questions. Percentage distribution of apartment constructed by different Real Estate Companies in Delhi.
Number of total flats $=8000$


Ratio of 2 BHK and 3 BHK flats

| Company | Ratio <br> 2 BHK:3 BHK |
| :---: | :---: |
| A- Group | $3: 2$ |
| B-Group | $11: 5$ |
| C-Group | $9: 7$ |
| D-Group | $5: 3$ |
| E- group | $7: 8$ |
| F- Group | $3: 1$ |

Q. What is the respective ratio between the number of 2 BHK flats in C group and number of 3 BHK flats in B group?

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A. $18: 23$
B. $11: 15$
C. $17: 28$
D. $27: 16$
E. None of these

Correct Answers E. None of these

$$
=\frac{18 \times 8000}{100} \times \frac{9}{16}: \frac{33 \times 8000}{100} \times \frac{5}{16}=54: 55
$$

Q. The number of 2 BHK flats in C group is what percent more than the number of 3 BHK flats in D group?
A. 80
B. 75
C. 78
D. 83
E. None of these

Correct Answers A. 80

$$
=\frac{810-450}{450} \times 100=80 \%
$$

Required percentage

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Q. What is approximate average number of 2 BHK flats in $D$ and $E$ group?
A. 680
B. 682
C. 640
D. 620
E. 673

Correct Answers E. 673
Average $=\frac{750+597.33}{2} \approx 673$
Q. The number of 2 BHK flats in $F$ group is approximately what percent of the number of 3 BHK flats in C group?
A. 75
B. 76
C. 77
D. 78
E. None of these

Correct Answers B. 76

$$
=\frac{480}{630} \times 100=76.2 \% \approx 76 \%
$$

Required \%

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Q. What is the difference between the number of 2 BHK flats in D group and number of 3 BHK flats in B group?
A. 80
B. 75
C. 88
D. 85
E. None of these

Correct Answers B. 75
Difference $=825$ - 750 = 75

SET 5 Direction Study the following pie chart and table to answer the following questions:
$\%$ of people in different departments
of an organization


|  | Below $\mathbf{4 0}$ years <br> (Male $:$ Female) | Above 40 years <br> (Male $:$ Female) |
| :--- | :--- | :--- |
| A | $9: 11$ | $4: 5$ |
| B | $9: 1$ | $3: 7$ |
| C | $7: 8$ | $8: 7$ |
| D | $7: 8$ | $7: 9$ |
| E | $4: 1$ | $5: 7$ |
| F | $7: 3$ | $1: 9$ |

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Q. If the total number of people in department $B$ below the age 40 and years and above 40 years is 1320 , find the total number of people in the company altogether?
A) 6600
B) 6700
C) 5400
D) 6200
E) 5800

## Answer Option A

Solution:
$20 / 100$ * total people in company $=1320$
So total people in company $=6600$
Q. If the total number of people in department $C$ is 160 , then what is the number of female employees above 40 years in department $D$ ?
A) 144
B) 146
C) 125
D) 135
E) 122

## Answer Option D

Solution:
$10 / 100$ * total people in company $=160$
So total people in company= 1600
So female employees above 40 years in department $\mathrm{D}=9 / 16 * 15 / 100 * 1600=135$
Q. If the total number of employee in department $D$ is 375 and total number of males above 40 years of age and females below 40 years of age is 122 in department $F$, then what is the number of males below 40 years in department F?
A) 258
B) 266

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C) 243
D) 252
E) 247

## Answer Option D

## Solution:

$15 / 100$ * total people in company $=375$
So total people in company= 2500
And total people in department F is $20 / 100 * 2500=500$
Let total number of employees in dept D below 40 years is x and above 40 years is y .
Then
$1 / 10 * y+3 / 10 * x=122$ or
$3 \mathrm{x}+\mathrm{y}=1220$
Also from above total people in department F is 500 so
$x+y=500$
Solve the two equations, $x=360$
So number of males below 40 years in department $\mathrm{F}=7 / 10 * 360=252$
Q. If the number of female employees below 40 years and number of male employees above 40 years in department $E$ are 40 and 75 respectively, then find the number of employees in company $A$.
A) 2160
B) 2090
C) 2450
D) 2370
E) 2280

## Answer Option E

## Solution:

$1 / 5$ * employees below 40 years in $\mathrm{E}=40$
So employees below 40 years in $\mathrm{E}=200$
AND
5/12 * employees below 40 years in $\mathrm{E}=75$
So employees above 40 years in $\mathrm{E}=180$
So total employees in E = 200 $+180=380$
So 5/100 * total employees in company $=380$

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So total employees in company $=7600$
So total employees in dept $A=30 / 100 * 7600=2280$
Q. If the total number of employee in department $A$ is 255 and total number of males below 40 years of age and females above 40 years of age is 131 in department $B$, then find the ratio of total number of employees in dept $B$ below 40 years and total number of employees in dept $B$ above 40 years?
A) $6: 11$
B) $3: 8$
C) $5: 12$
D) $10: 17$
E) $7: 11$

## Answer Option A

Solution:
$30 / 100$ * total people in company $=255$
So total people in company $=850$
And total people in department B is $20 / 100 * 850=170$
Let total number of employees in dept $B$ below 40 years is x and above 40 years is y .
Then
$9 / 10 * x+7 / 10 * y=131$ or
$9 x+7 y=1310$
Also
$\mathrm{x}+\mathrm{y}=170$
Solve the two equations, $x=60, y=110$
So ratio $=60: 110=6: 11$

SET 6 Directions (asked exact same type in Clerk Main 2016 exam)
The following table shows the MP, SP, Profit, Profit\% and Discount\% on 5 different products sold. Some values are missing in the table. Fill in the values and use it to answer the following questions:

| Products MP | CP | Profit |  | Profit\% | Discount\% |
| :--- | ---: | :--- | :--- | :--- | ---: | ---: |
| A |  | 250 |  | 20 | 25 |
| B | 1100 |  | 22 | 10 |  |
| C | 300 | 180 | 27 |  | 16 |
| D |  | 320 | 16 |  | 73 |
| E | 1100 |  | 27 | 10 |  |
| F | 600 | 360 |  |  | 31 |

Q. What is the difference in the MPs of products $E$ and $C$ ?
A) Rs 780
B) Rs 830
C) Rs 800
D) Rs 700
E) Rs 920

## Answer Option C

Solution:
MP of C = 300
For MP of E:
$10 / 100$ * CP = 27
So $\mathrm{CP}=270$, then $\mathrm{SP}=270+27=$ Rs 297
So MP $=100 /(100-73) * 297=$ Rs 1100
So difference $=1100-300=$ Rs 800
Similarly find all values for questions

| Products | MP | CP | Profit |  | Profit\% |  | Discount\% |
| :--- | ---: | ---: | ---: | ---: | ---: | :---: | :---: |
| A | 400 | 250 | 50 | 20 | 25 |  |  |
| B | 1100 | 220 | 22 | 10 | 78 |  |  |
| C | 300 | 180 | 27 | 15 | 31 |  |  |
| D | 400 | 320 | 16 | 5 | 16 |  |  |
| E | 1100 | 270 | 27 | 10 | 73 |  |  |

Q. Find the difference in percentage points of discounts given for products E and discounts given for products $B$ and $C$ together.
A) $49 \%$

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B) $36 \%$
C) $33 \%$
D) $45 \%$
E) $76 \%$

## Answer Option B

Solution:
Discount\% for E = 73\%
Discount\% for B:
$10 / 100$ * CP = 22
So $\mathrm{CP}=220$, then $\mathrm{SP}=220+22=242$
MP $=1100$, so discount $\%=(1100-242) / 1100 * 100=78 \%$
Similarly discount \% for C = 31\%
So required percentage points $=(31+78)-73=36 \%$
Q. What is the total of MP of product $D$ and SP of product $B$ ?
A) Rs 642
B) Rs 532
C) Rs 628
D) Rs 568
E) Rs 544

Answer Option A
Solution:
For country D:
$400+242=$ Rs 642
Q. If a person buys products $A$ and $E$ for their respective selling prices, then what is the resultant discount $\%$ given to him?
A) $50.70 \%$
B) $60.20 \%$
C) $48.06 \%$
D) $67.62 \%$
E) $54.50 \%$

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Answer Option B
Solution:
Total MP of A and $\mathrm{E}=400+1100=$ Rs 1500
Total SP of A and E = 300+297 = Rs 597
So discount\% $=(1500-597) / 1500 * 100=60.2 \%$

## Q. Find the profit\% given for product $F$.

A) $16 \%$
B) $12 \%$
C) $18 \%$
D) $15 \%$
E) Cannot be determined

## Answer Option D

Solution:
Use formula
MP $=(100+\mathrm{p} \%) /(100-\mathrm{d} \%) * \mathrm{CP}$
So
600/360 $=(100+\mathrm{p} \%) /(100-31)$
Solve, $\mathrm{p} \%=15 \%$

SET: 7 Direction: Refer to the graphs and answer the following questions.
The first bar graph shows the marked up price of articles with respect to their cost price and the second bar graph shows the discount \% given in respective articles.

Q. If the cost price of $Q$ is decreased by $10 \%$ (other prices remaining same), then what is the different between the new profit $\%$ and original one?
A) $15 \%$
B) $10 \%$
C) $12 \%$
D) $9 \%$
E) Cannot be determined

## Answer Option C

## Explanation:

Using MP = (100+p\%)/(100-d\%) * CP
For article Q:
$180 \%$ of CP $=(100+\mathrm{p} \%) /(100-40) * \mathrm{CP}$

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CP gets cancelled out, so $\mathrm{p} \%=8 \%$
Now new CP $=90 \%$ of CP
So using MP $=(100+\mathrm{p} \%) /(100-\mathrm{d} \%){ }^{*} \mathrm{CP}$
$180 \%$ of $\mathrm{CP}=(100+\mathrm{p} \%) /(100-40) * 90 \%$ of CP
New p\% = 20\%
So difference $=20-8=12 \%$
Q. Cost price of $P$ is $\mathbf{1 0 \%}$ more than the cost price of $R$. If selling price of $R$ is Rs 320, find the selling price of $P$.
A) Rs 548.5
B) Rs 577.5
C) Rs 532.5
D) Rs 553.5
E) Cannot be determined

## Answer Option B

## Explanation:

Let CP of $\mathrm{R}=\mathrm{Rs} \mathrm{x}$
For R:
Using MP $=(100+\mathrm{p} \%) /(100-\mathrm{d} \%)^{*} \mathrm{CP}$
$160 \%$ of $\mathrm{CP}=(100+\mathrm{p} \%) /(100-60){ }^{*} \mathrm{CP}$
$p=-36$, means there is a loss of $36 \%$

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Now SP of R = Rs 320
So CP of $\mathrm{R}=100 / 64 * 320=$ Rs 500
So CP of $\mathrm{P}=110 \%$ of $500=$ Rs 550
For P: using MP $=(100+\mathrm{p} \%) /(100-\mathrm{d} \%)^{*} \mathrm{CP}$
$150 \%$ of CP $=(100+\mathrm{p} \%) /(100-30) * \mathrm{CP}$
$\mathrm{p}=5 \%$
So SP of $\mathrm{P}=105 \%$ of $550=$ Rs 577.5
$Q$. If the cost price of $Q$ and $S$ is same, then selling price of $S$ is how much \% less than the selling price of $Q$ ?
A) $79 \%$
B) $63 \%$
C) $82 \%$
D) $67 \%$
E) Cannot be determined

## Answer Option B

## Explanation:

Let CP of $\mathrm{Q}=\mathrm{CP}$ of $\mathrm{S}=$ Rs 100
$\mathrm{p} \%$ of $\mathrm{Q}=8 \%$ [from Question 1]
So SP of $\mathrm{Q}=108 \%$ of $100=$ Rs 108
For S: using MP $=(100+\mathrm{p} \%) /(100-\mathrm{d} \%) * \mathrm{CP}$

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$200 \%$ of CP $=(100+\mathrm{p} \%) /(100-80) * \mathrm{CP}$
$p=-60 \%$, so there is a loss of $60 \%$
So SP of $\mathrm{S}=40 \%$ of $100=$ Rs 40
Now SP of $\mathrm{Q}=$ Rs 108 and SP of $\mathrm{S}=\mathrm{Rs} 40$
Required \% = (108-40)/108 * $100=63 \%$
Q. If the selling price of $T$ is increased by $20 \%$, then what would be the discount $\%$ ?
A) $50 \%$
B) $58 \%$
C) $45 \%$
D) $40 \%$
E) $52 \%$

## Answer Option D

## Explanation:

For T :
using MP $=(100+\mathrm{p} \%) /(100-\mathrm{d} \%)^{*} \mathrm{CP}$
$150 \%$ of $\mathrm{CP}=(100+\mathrm{p} \%) /(100-50) * \mathrm{CP}$
$p=-25$, so loss of $25 \%$
Let $\mathrm{CP}=$ Rs 100 , so $\mathrm{SP}=$ Rs 75
Now SP is increased by $20 \%$, so new $\mathrm{SP}=120 \%$ of $75=$ Rs 90
and MP $=150 \%$ of $100=$ Rs 150

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So discount $\%=(150-90) / 150 * 100=40 \%$
Q. If the marked price of $S$ is increased by $10 \%$ (keeping other prices same) which is same as the cost price of $T$, then what is the cost price of $S$ given that selling price of T is Rs 660 ?
A) Rs 400
B) Rs 500
C) Rs 440
D) Rs 550
E) Rs 360

Answer Option A
Explanation:
For S:
Let CP of $\mathrm{S}=$ Rs x
So MP $=200 \%$ of $\mathrm{x}=$ Rs 2 x
Increased MP $=110 \%$ of $2 x=$ Rs $22 x / 10$
For T:
So CP of T = Rs 22x/10
and from above question, loss is $25 \%$
So SP of T $=75 \%$ of $22 \mathrm{x} / 10$
So $75 \%$ of $22 \mathrm{x} / 10=660$, solving $\mathrm{x}=$ Rs 400

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SET 8: Direction: The following table shows the statistics of 5 players. Answer the questions based on information given.

| Name | Number of <br> goals scored | Number of <br> minutes played | Shot <br> Coversion rate | Goals/Match <br> ratio |
| :---: | :---: | :---: | :---: | :---: |
| A | 20 | 2234 | $25 \%$ | 0.25 |
| B | 18 | 2563 | $24 \%$ | 0.35 |
| C | 19 | 2434 | $23.75 \%$ | 0.45 |
| D | 16 | 1926 | $32 \%$ | 0.4 |
| E | 17 | 2017 | $20 \%$ | 0.55 |

Strike rate $=\frac{\text { Number of minutes played }}{\text { Number of goals scored }}$
The lower the strike rate, the better it is considered
Number of shots $=\frac{\text { Number of goals scored }}{\text { Shot coversion rate }}$
Q. What is the difference in the number of matches played by $A$ and $D$ ?
A) 55
B) 47
C) 50
D) 40
E) 44

## Answer Option D

## Explanation:

Played by A $=20 / 0.25=80$
Played by D $=16 / 0.40=40$
So difference $=40$

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Q. If all players $A, B, C, D$, and $E$ are associated with different teams $P, Q, R, S, T$ respectively, then which of the following team won the series?
A) $P$
B) $R$
C) T
D) S
E) Cannot be determined

## Answer Option E

## Explanation:

The given goals are of individual players of the teams. How other players played is not given, so cannot be said by just seeing the goals of a single player of team.
Q. Which player has the best strike rate in terms of minutes?
A) A
B) B
C) C
D) D
E) E

## Answer Option A

## Explanation:

$\mathrm{A}=2234 / 20=111.7$
$B=2563 / 18=142.4$

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$C=2434 / 19=128.1$
D $=1926 / 16=120.4$
$\mathrm{E}=2017 / 17=118.6$
The lower the strike rate, best it is considered
Q. If the difference in number of shots by two players is 25 , then what is the difference in the strike rate of these?
A) 23
B) 24
C) 22
D) 21
E) Cannot be Determined

## Answer Option C

Explanation:
Number of shots of
$\mathrm{A}=20 / 0.25=80$
$B=18 / 0.24=75$
$\mathrm{C}=19 / 0.2375=80$
$\mathrm{D}=16 / 0.32=50$
$\mathrm{E}=17 / 0.20=85$
So these two players are B and D

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Difference in their strike rates $=2563 / 18-1926 / 16=142.4-120.4=22$
Q. If there are 24 matches left to be played, than what should be the goals/match ratio of $B$ for the rest of games if he wants to overtake $A$ in terms of number of goals scored?
A) 0.275
B) 0.395
C) 0.225
D) 0.375
E) 0.345

## Answer Option D

## Explanation:

At current rate, A will score $=24^{*} 0.25=6$ goals more in 24 matches, so A's goals will be $20+6=26$

So B to overtake A needs 27 total goals thus needs these 9 more goals $(18+9=27)$ in 24 matches

So goal : match $=9: 24=0.375$

